

**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY

| N.A.D 1983 FEET COORDINATES |            |            |
|-----------------------------|------------|------------|
| CHANNEL                     | EAST       | NORTH      |
| 01                          | 6010314.45 | 2162197.63 |
| 02                          | 6009479.89 | 2161610.01 |
| 03                          | 6010702.46 | 2161282.52 |
| 04                          | 6013280.69 | 2158029.15 |
| 05                          | 6013071.04 | 2159051.01 |
| 06                          | 6016426.10 | 2157649.80 |
| 07                          | 6013946.57 | 2158590.79 |
| 08                          | 6020299.00 | 2156972.67 |
| 09                          | 6019811.96 | 2157565.40 |
| 10                          | 6023187.69 | 2156366.16 |
| 11                          | 6022179.34 | 2157068.34 |
| 12                          | 6024797.51 | 2156256.20 |
| 13                          | 6023175.20 | 2156977.43 |
| 14                          | 6025133.87 | 2156630.06 |
| 15                          | 6024071.67 | 2157243.59 |
| 16                          | 6025096.39 | 2157620.81 |
| 17                          | 6024244.59 | 2157571.89 |
| 18                          | 6024794.29 | 2156999.14 |
| 19                          | 6023863.10 | 2156986.43 |
| 20                          | 6024629.98 | 2159700.46 |

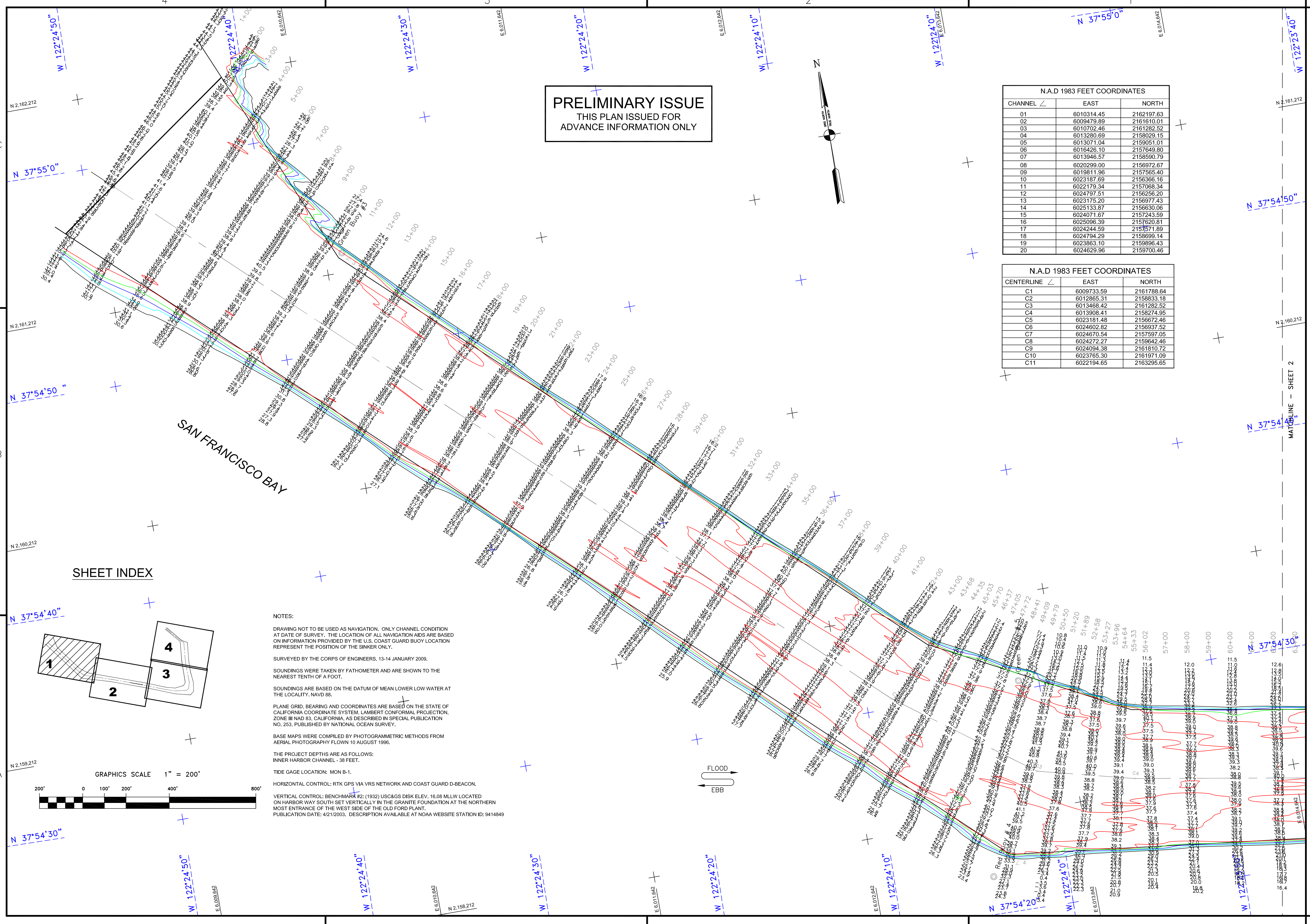
| N.A.D 1983 FEET COORDINATES |            |            |
|-----------------------------|------------|------------|
| CENTERLINE                  | EAST       | NORTH      |
| C1                          | 6009733.59 | 2161788.64 |
| C2                          | 6012865.31 | 2158833.18 |
| C3                          | 6013468.42 | 2161282.52 |
| C4                          | 6013908.41 | 2158274.95 |
| C5                          | 6023181.48 | 2156672.46 |
| C6                          | 6024802.82 | 2159937.52 |
| C7                          | 6024670.54 | 2157597.05 |
| C8                          | 6024272.27 | 2156642.46 |
| C9                          | 6024094.38 | 2161810.72 |
| C10                         | 6023765.30 | 2161971.09 |
| C11                         | 6022194.65 | 2163295.65 |

| Mark | Description | Date | Appr. |
|------|-------------|------|-------|
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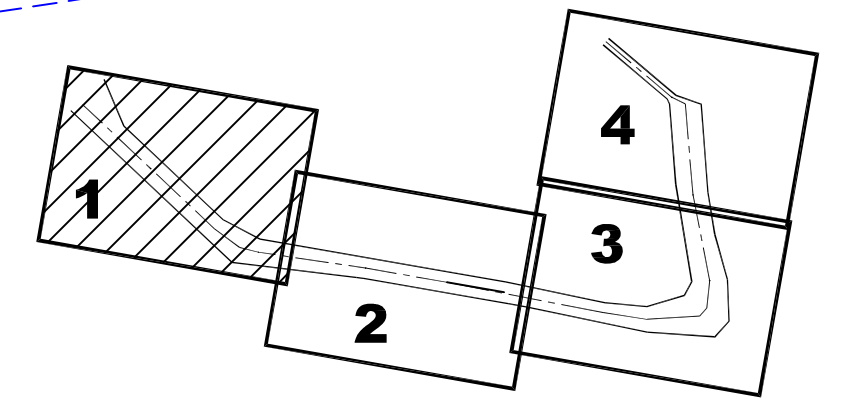
| DESIGNED BY:                     |      | CHECKED BY:                     |     | DRAWN BY:                            |     |
|----------------------------------|------|---------------------------------|-----|--------------------------------------|-----|
| MC                               | Lead | TW                              | EWC | TVW                                  | EWC |
|                                  |      |                                 |     |                                      |     |
| DATE: 01/13/2009                 |      | SHEET NO. 1 OF 4                |     | DRAWING NO. 9 2 361                  |     |
| APPROVAL RECOMMENDED:            |      | PREPARED UNDER THE DIRECTION OF |     | LAURENCE M. FARRELL                  |     |
| CHIEF, Technical Support Section |      | APPROVED:                       |     | LT. COLONEL, C.E., DISTRICT ENGINEER |     |
| SUBMITTED:                       |      | CHIEF, Construction Branch      |     |                                      |     |

ALAMEDA COUNTY CALIFORNIA  
**RICHMOND INNER HARBOR  
CONDITION SURVEY  
13-14 JANUARY 2009**

Sheet  
reference  
number  
**C1**



**SHEET INDEX**



**NOTES:**

DRAWING NOT TO BE USED AS NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS, 13-14 JANUARY 2009.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.

PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

BASE MAPS WERE COMPILED BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN 10 AUGUST 1996.

THE PROJECT DEPTHS ARE AS FOLLOWS:  
INNER HARBOR CHANNEL - 38 FEET.

TIDE GAGE LOCATION: MON B-1.

HORIZONTAL CONTROL: RTK GPS VIA VRS NETWORK AND COAST GUARD D-BEACON.

VERTICAL CONTROL: BENCHMARK #2: (1932) USCG&S DISK ELEV. 16.08 MLLW LOCATED ON HARBOR WAY SOUTH SET VERTICALLY IN THE GRANITE FOUNDATION AT THE NORTHERN MOST ENTRANCE OF THE WEST SIDE OF THE OLD FORD PLANT.

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